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NEWS 4 Feb 16 TOXLINE no longer being updated
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
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```
=> s random mutagens?
L1          0 RANDOM MUTAGENS?

=> s random mutagensis
L2          0 RANDOM MUTAGENSIS

=> s mutagenesis
L3          205733 MUTAGENESIS

=> s random
L4          341978 RANDOM

=> s l3 and l4
L5          6778 L3 AND L4

=> s polynuceotide or polynucleotides
L6          18001 POLYNUCEOTIDE OR POLYNUCLEOTIDES

=> s polynucleotide or polynucleotides
L7          32332 POLYNUCLEOTIDE OR POLYNUCLEOTIDES

=> s l5 and l7
L8          32 L5 AND L7

=> dup rem l8
PROCESSING COMPLETED FOR L8
L9          22 DUP REM L8 (10 DUPLICATES REMOVED)

=> d l9 1-22
```

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L9  ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2001 ACS
AN  2001:300865  CAPLUS
DN  134:321560
TI  Directed evolution using random hybridization of homologous
    sequences to transient templates to create sequence variants for
    screening
IN  Coco, Wayne M.; Arensdorf, Joseph J.; Crist, Michael J.; Darzins, Aldis;
    Encell, Lance P.; Folsom, Brian R.; Hektor, Hans J.; Nalty, Mark S.;
    Levinson, William E.; Palmer, Stephen R.
PA  Enchira Biotechnology Corporation, USA; et al.
SO  PCT Int. Appl., 158 pp.
    CODEN: PIXXD2
DT  Patent
LA  English
FAN.CNT 2
```

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001029211	A2	20010426	WO 2000-US29046	20001019
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				
	HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				
	LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				
	SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,				
	YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,				
	CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 1999-160420	P	19991019		
	US 2000-514660	A2	20000229		
	US 2000-218883	P	20000718		

US 2000-219087 P 20000718
 US 2000-219090 P 20000718
 US 2000-618696 A2 20000718
 US 2000-618696 A 20000718
 US 2000-618935 A2 20000718

L9 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2001 ACS
 AN 2001:137366 CAPLUS
 DN 134:188966
 TI Method for **random mutagenesis** and amplification of
 nucleic acid
 IN Lietz, Eric
 PA Genopsys, USA
 SO PCT Int. Appl., 60 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012802	A1	20010222	WO 2000-US22078	20000811
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		

PRAI US 1999-374274 A1 19990813

RE.CNT 13

RE

- (1) Crea, R; WO 9115581 A 1991 CAPLUS
 - (3) Ge, L; BIOTECHNIQUES 1997, V22(1), P28 CAPLUS
 - (4) Horton, R; GENE 1989, V77, P61 CAPLUS
 - (5) Joyce, G; NUCLEIC ACIDS RESEARCH 1989, V17(2), P711 CAPLUS
 - (6) Landt, O; GENE 1990, V96, P125 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 22 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 1
 AN 2001:266595 BIOSIS
 DN PREV200100266595
 TI Recombination of **polynucleotide** sequences using **random**
 or defined primers.
 AU Arnold, Frances H.; Shao, Zhixin (1); Affholter, Joseph A.; Zhao, Huimin
 H.; Giver, Lorraine J.
 CS (1) Pasadena, CA USA
 ASSIGNEE: California Institute of Technology
 PI US 6153410 November 28, 2000
 SO Official Gazette of the United States Patent and Trademark Office
 Patents,
 (Nov. 28, 2000) Vol. 1240, No. 4, pp. No Pagination. e-file.
 ISSN: 0098-1133.
 DT Patent
 LA English

L9 ANSWER 4 OF 22 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 2
 AN 2001:209466 BIOSIS
 DN PREV200100209466
 TI Methods for generating **polynucleotides** having desired

characteristics by iterative selection and recombination.
 AU Stemmer, Willem P. C.
 ASSIGNEE: Maxygen, Inc.
 PI US 6117679 September 12, 2000
 SO Official Gazette of the United States Patent and Trademark Office
 Patents,
 (Sep. 12, 2000) Vol. 1238, No. 2, pp. No Pagination. e-file.
 ISSN: 0098-1133.
 DT Patent
 LA English

L9 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2001 ACS
 AN 2000:646133 CAPLUS
 DN 133:233579
 TI In vitro evolution of protein properties using methods of saturating
mutagenesis and high throughput screening and selection for
 specific properties
 IN Short, Jay M.; Frey, Gerhard Johann
 PA Diversa Corporation, USA
 SO PCT Int. Appl., 259 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 15

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000053744	A2	20000914	WO 2000-US6497	20000309
	WO 2000053744	A3	20010118		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 6238884	B1	20010529	US 1999-267118	19990309
PRAI	US 1999-267118	A	19990309		
	US 1999-276860	A	19990326		
	US 1999-332835	A	19990614		
	US 1995-8311	P	19951207		
	US 1996-760489	A1	19961205		
	US 1998-185373	A2	19981103		
	US 1999-246178	A2	19990204		

L9 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2001 ACS
 AN 2000:210351 CAPLUS
 DN 132:247119
 TI Method for making insertional mutations using in vivo Tn5 transposase
mutagenesis
 IN Reznikoff, William S.; Goryshin, Igor Y.
 PA Wisconsin Alumni Research Foundation, USA
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000017343	A1	20000330	WO 1999-US21960	19990921

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
 DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,
 IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,
 MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
 TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
 KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6159736 A 20001212 US 1998-159363 19980923
 AU 9960573 A1 20000410 AU 1999-60573 19990921
 PRAI US 1998-159363 A 19980923
 WO 1999-US21960 W 19990921

RE.CNT 8

RE

- (1) Goryshin, I; JOURNAL OF BIOLOGICAL CHEMISTRY 1998, V273(13), P7367 CAPLUS
 - (2) Goryshin, I; NATURE BIOTECHNOLOGY 2000, V18(1), P97 CAPLUS
 - (3) Junop, M; EMBO JOURNAL 1996, V15(10), P2547 CAPLUS
 - (4) Leschziner, A; PROC NATL ACAD SCI USA 1998, V95, P7345 CAPLUS
 - (5) Mizuuchi, M; CELL 1992, V70, P303 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2001 ACS

AN 2000:736184 CAPLUS

DN 133:291923

TI Methods of shuffling **polynucleotides** by fragmentation and
 multi-cyclic extension

IN Stemmer, Willem P. C.

PA Maxygen, Inc., USA

SO U.S., 61 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6132970	A	20001017	US 1998-100856	19980619

RE.CNT 187

RE

- (2) Andersson; PNAS 1996, V93, P906 CAPLUS
- (3) Anon; EP 552266 CAPLUS
- (4) Anon; EP 0252666 B1 1988 CAPLUS
- (5) Anon; WO 9007576 1990 CAPLUS
- (6) Anon; WO 9014424 1990 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OF 22 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.

AN 2000106976 EMBASE

TI Capping DNA with DNA.

AU Li Y.; Liu Y.; Breaker R.R.

CS R.R. Breaker, Department of Molecular Biology, Yale University, New
 Haven,

CT 06520-8103, United States. ronald.breaker@yale.edu

SO Biochemistry, (21 Mar 2000) 39/11 (3106-3114).

Refs: 39

ISSN: 0006-2960 CODEN: BICHAW

CY United States

DT Journal; Article

FS 029 Clinical Biochemistry

LA English

SL English

L9 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2001 ACS
 AN 2000:316413 CAPLUS
 DN 134:52004
 TI Studies on the two methods of gene **random** mutation in vitro
 AU Li, Hong-Jian; Zhang, Yi; Zhou, Tian-Hong; Li, Yue-Qin
 CS College of Life Science and Technology, Jinnan University, Canton,
 510632,
 Peop. Rep. China
 SO Yichuan (2000), 22(2), 96-100
 CODEN: ICHUDW; ISSN: 0253-9772
 PB Yichuan Zazhi Bianjibu
 DT Journal
 LA Chinese

L9 ANSWER 10 OF 22 LIFESCI COPYRIGHT 2001 CSA
 AN 2001:47007 LIFESCI
 TI Methods for generating **polynucleotides** having desired
 characteristics by iterative selection and recombination
 AU Stemmer, W.P.C.
 CS Maxygen, Inc.
 SO (20000912) . US Patent: 6117679; US CLASS: 435/440; 435/6; 536/23.1;
 536/24.3.
 DT Patent
 FS W3
 LA English
 SL English

L9 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2001 ACS
 AN 1999:811262 CAPLUS
 DN 132:45795
 TI Method for producing **polynucleotides** with desired properties by
 reiterative **mutagenesis** and screening
 IN Krebber, Claus M.
 PA Maxygen, Inc., USA
 SO PCT Int. Appl., 42 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9965927	A2	19991223	WO 1999-US13479	19990615
	WO 9965927	A3	20000210		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,			
		DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,			
		JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,			
		MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,			
		TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,			
		RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,			
		ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,			
		CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9944416	A1	20000105	AU 1999-44416	19990615
	EP 1090024	A2	20010411	EP 1999-927536	19990615
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			
		IE, FI			
PRAI	US 1998-89649	P	19980617		
	WO 1999-US13479	W	19990615		

L9 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2001 ACS

AN 1999:784255 CAPLUS
 DN 132:31726
 TI Compositions of nucleic acid which alter ligand-binding characteristics and related methods and products
 IN Lane, Michael J.; Benight, Albert S.; Faldasz, Brian D.
 PA TM Technologies, Inc., USA
 SO PCT Int. Appl., 62 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9963077	A2	19991209	WO 1999-US12516	19990604
	WO 9963077	A3	20000629		
	W: JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	US 1998-87905	P	19980604		
	US 1999-324672	A	19990603		

L9 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2001 ACS
 AN 1998:672658 CAPLUS
 DN 129:271526
 TI Recombination of **polynucleotide** sequences using **random** or defined primers
 IN Arnold, Frances H.; Shao, Zhixin; Affholter, Joseph A.; Zhao, Huimin; Giver, Lorraine J.
 PA California Institute of Technology, USA
 SO PCT Int. Appl., 78 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9842832	A1	19981001	WO 1998-US5956	19980325
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 6153410	A	20001128	US 1997-905359	19970804
	AU 9869420	A1	19981020	AU 1998-69420	19980325
	AU 724698	B2	20000928		
	EP 920496	A1	19990609	EP 1998-915171	19980325
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 9804791	A	19990817	BR 1998-4791	19980325
	JP 2000511783	T2	20000912	JP 1998-545987	19980325
PRAI	US 1997-41666	P	19970325		
	US 1997-45211	P	19970430		
	US 1997-46256	P	19970512		
	US 1997-905359	A	19970804		
	US 1997-905058	B2	19970801		
	WO 1998-US5956	W	19980325		

L9 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2001 ACS

AN 1998:672568 CAPLUS
 DN 129:286711
 TI Recombination of **polynucleotide** sequences using **random**
 or defined primers and staggered extension
 IN Arnold, Frances H.; Shao, Zhixin; Affholter, Joseph A.; Zhao, Huimin;
 Giver, Lorraine J.
 PA California Institute of Technology, USA
 SO PCT Int. Appl., 101 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9842728	A1	19981001	WO 1998-US5814	19980325
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 6153410	A	20001128	US 1997-905359	19970804
	AU 9867725	A1	19981020	AU 1998-67725	19980325
	EP 975653	A1	20000202	EP 1998-913096	19980325
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, PT, IE, FI				
PRAI	US 1997-41666	P	19970325		
	US 1997-45211	P	19970430		
	US 1997-46256	P	19970512		
	US 1997-905359	A	19970804		
	US 1997-905058	B2	19970801		
	WO 1998-US5814	W	19980325		

L9 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2001 ACS
 AN 1998:66014 CAPLUS
 DN 128:124509
 TI Method of DNA shuffling with **polynucleotides** produced by
 blocking or interrupting a synthesis or amplification process
 IN Short, Jay M.
 PA Recombinant Biocatalysis, Inc., USA; Short, Jay M.
 SO PCT Int. Appl., 80 pp.
 CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 15

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9801581	A1	19980115	WO 1997-US12239	19970709
	W: AU, CA, IL, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	US 5965408	A	19991012	US 1996-677112	19960709
	CA 2259628	AA	19980115	CA 1997-2259628	19970709
	AU 9736626	A1	19980202	AU 1997-36626	19970709
	EP 1007727	A1	20000614	EP 1997-933438	19970709
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2000514651	T2	20001107	JP 1998-505366	19970709
PRAI	US 1996-677112	A2	19960709		
	WO 1997-US12239	W	19970709		

L9 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2001 ACS

AN 1998:623998 CAPLUS

DN 129:240855

TI Methods for generating **polynucleotides** having desired characteristics by iterative selection and recombination

IN Stemmer, Willem P. C.; Cramer, Andreas

PA Affymax Technologies N.V., Neth. Antilles

SO U.S., 74 pp. Cont.-in-part of U.S. Ser. No. 198,431.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5811238	A	19980922	US 1995-564955	19951130
	US 5605793	A	19970225	US 1994-198431	19940217
	EP 934999	A1	19990811	EP 1998-122040	19950217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE	JP 2001057893	A2	20010306	JP 2000-201673	19950217
	EP 1094108	A2	20010425	EP 2001-100962	19950217
	EP 1094108	A3	20010509		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE	US 5830721	A	19981103	US 1996-537874	19960304
	US 6117679	A	20000912	US 1996-621859	19960325
	CA 2239099	AA	19970605	CA 1996-2239099	19961202
	WO 9720078	A1	19970605	WO 1996-US19256	19961202
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9710873	A1	19970619	AU 1997-10873	19961202
	AU 713952	B2	19991216		
	EP 876509	A1	19981111	EP 1996-940934	19961202
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	EP 911396	A2	19990428	EP 1998-122014	19961202
	EP 911396	A3	19990506		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2000500981	T2	20000202	JP 1997-520744	19961202
	JP 2000308490	A2	20001107	JP 1999-267847	19961202
	EP 1103606	A2	20010530	EP 2001-103198	19961202
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 6180406	B1	20010130	US 1998-99015	19980617
	AU 9923816	A1	19990812	AU 1999-23816	19990416
PRAI	US 1994-198431	A2	19940217		
	US 1996-537874	A2	19960304		
	AU 1995-29714	A3	19950217		
	EP 1995-911826	A3	19950217		
	JP 1995-521977	A3	19950217		
	WO 1995-US2126	W	19950217		
	US 1995-564955	A2	19951130		
	US 1996-621859	A	19960325		

EP 1996-940934 A3 19961202
 JP 1997-520744 A3 19961202
 WO 1996-US19256 W 19961202

L9 ANSWER 17 OF 22 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 3
 AN 1998:121044 BIOSIS
 DN PREV199800121044
 TI **Random**-priming in vitro recombination: An effective tool for
 directed evolution.
 AU Shao, Zhixin; Zhao, Huimin; Giver, Lori; Arnold, Frances H. (1)
 CS (1) Division Chemistry Chemical Engineering 210-41, California Inst.
 Technol., Pasadena, CA 91125 USA
 SO Nucleic Acids Research, (Jan. 15, 1998) Vol. 26, No. 2, pp. 681-683.
 ISSN: 0305-1048.
 DT Article
 LA English

L9 ANSWER 18 OF 22 LIFESCI COPYRIGHT 2001 CSA
 AN 1998:63865 LIFESCI
 TI Molecular evolution by staggered extension process (StEP) in vitro
 recombination
 AU Zhao, Huimin; Giver, L.; Shao, Zhixin; Affholter, J.A.; Arnold, F.H.*
 CS Div. Chem. and Chem. Eng., California Inst. Technol., Pasadena, CA 91125,
 USA
 SO NAT. BIOTECHNOL., (19980300) vol. 16, no. 3, pp. 258-261.
 ISSN: 1087-0156.
 DT Journal
 FS W3; N
 LA English
 SL English

L9 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2001 ACS
 AN 1997:467751 CAPLUS
 DN 127:76978
 TI Methods for generating **polynucleotides** having desired
 characteristics by iterative selection and recombination
 IN Stemmer, Willem P. C.; Crameri, Andreas
 PA Affymax Technologies N.V., Neth. Antilles; Stemmer, Willem P. C.;
 Crameri,
 Andreas
 SO PCT Int. Appl., 208 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 8

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9720078	A1	19970605	WO 1996-US19256	19961202
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 5811238	A	19980922	US 1995-564955	19951130
US 6117679	A	20000912	US 1996-621859	19960325
AU 9710873	A1	19970619	AU 1997-10873	19961202
AU 713952	B2	19991216		
EP 876509	A1	19981111	EP 1996-940934	19961202

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

JP 2000500981	T2	20000202	JP 1997-520744	19961202
AU 9923816	A1	19990812	AU 1999-23816	19990416
PRAI US 1995-564955	A	19951130		
US 1996-621859	A2	19960325		
US 1994-198431	A2	19940217		
AU 1995-29714	A3	19950217		
US 1996-537874	A2	19960304		
WO 1996-US19256	W	19961202		

L9 ANSWER 20 OF 22 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 4
AN 1996:154060 BIOSIS
DN PREV199698726195
TI The role of non-catalytic binding subsites in the endonuclease activity
of

bovine pancreatic ribonuclease A.
AU Moussaoui, Mohamed; Guasch, Alicia; Boix, Ester; Cuchillo, Claudi M.;
Nogues, Victoria (1)
CS (1) Dep. de Bioquímica Biol. Mol., Fac. de Ciències, Univ. Autònoma de
Barcelona, 08193 Bellaterra Spain
SO Journal of Biological Chemistry, (1996) Vol. 271, No. 9, pp. 4687-4692.
ISSN: 0021-9258.
DT Article
LA English

L9 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2001 ACS
AN 1995:863720 CAPLUS
DN 123:248553
TI Shuffling **mutagenesis** using pools of randomly-fragmented target
DNA, PCR reassembly and in vitro and in vivo recombination in the
creation

of large libraries
IN Stemmer, Willem P. C.; Cramer, Andreas
PA Affymax Technologies N.V., Neth.
SO PCT Int. Appl., 119 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	----	-----	----
PI	WO 9522625	A1	19950824	WO 1995-US2126	19950217
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UG				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5605793	A	19970225	US 1994-198431	19940217
	CA 2182393	AA	19950824	CA 1995-2182393	19950217
	AU 9529714	A1	19950904	AU 1995-29714	19950217
	AU 703264	B2	19990325		
	EP 752008	A1	19970108	EP 1995-911826	19950217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE	CN 1145641	A	19970319	CN 1995-191679	19950217
	JP 10500561	T2	19980120	JP 1995-521977	19950217
	EP 934999	A1	19990811	EP 1998-122040	19950217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE					

JP 2001057893	A2	20010306	JP 2000-201673	19950217
EP 1094108	A2	20010425	EP 2001-100962	19950217
EP 1094108	A3	20010509		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE

US 5830721	A	19981103	US 1996-537874	19960304
AU 9923816	A1	19990812	AU 1999-23816	19990416

PRAI

US 1994-198431	A2	19940217		
AU 1995-29714	A3	19950217		
EP 1995-911826	A3	19950217		
JP 1995-521977	A3	19950217		
WO 1995-US2126	W	19950217		

L9 ANSWER 22 OF 22 BIOSIS COPYRIGHT 2001 BIOSIS

AN 1983:183559 BIOSIS

DN BA75:33559

TI ISOLATION AND CHARACTERIZATION OF AN ESCHERICHIA-COLI MUTANT LACKING TRANSFER RNA GUANINE TRANS GLYCOSYLASE FUNCTION AND BIOSYNTHESIS OF QUEUOSINE IN TRANSFER RNA.

AU NOGUCHI S; NISHIMURA Y; HIROTA Y; NISHIMURA S

CS BIOL. DIV., NATL. CANCER CENT. RES. INST., CHUO-KU, TOKYO.

SO J BIOL CHEM, (1982) 257 (11), 6544-6550.

CODEN: JBCHA3. ISSN: 0021-9258.

FS BA; OLD

LA English

=> s 15 and PCR

L10 695 L5 AND PCR

=> s 110 and error prone

L11 123 L10 AND ERROR PRONE

=> dup rem 111

PROCESSING COMPLETED FOR L11

L12 42 DUP REM L11 (81 DUPLICATES REMOVED)

=> d 112 1-20

L12 ANSWER 1 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 1

AN 2001:180415 BIOSIS

DN PREV200100180415

TI Altering catalytic properties of 3-chlorocatechol-oxidizing extradiol dioxygenase from Sphingomonas xenophaga BN6 by **random mutagenesis**.

AU Riegert, Ulrich; Buerger, Sibylle; Stolz, Andreas (1)

CS (1) Institut fuer Mikrobiologie, Universitaet Stuttgart, 70569, Stuttgart:

Andreas.Stolz@PO.Uni-Stuttgart.DE Germany

SO Journal of Bacteriology, (April, 2001) Vol. 183, No. 7, pp. 2322-2330. print.

ISSN: 0021-9193.

DT Article

LA English

SL English

L12 ANSWER 2 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 2

AN 2001:152195 BIOSIS

DN PREV200100152195

TI Multiple roles of Arf1 GTPase in the yeast exocytic and endocytic pathways.

AU Yahara, Natsuko; Ueda, Takashi; Sato, Ken; Nakano, Akihiko (1)
 CS (1) Molecular Membrane Biology Laboratory, RIKEN, 2-1, Wako, Saitama,
 351-0198: nakano@postman.riken.go.jp Japan
 SO Molecular Biology of the Cell, (January, 2001) Vol. 12, No. 1, pp.
 221-238. print.
 ISSN: 1059-1524.
 DT Article
 LA English
 SL English

L12 ANSWER 3 OF 42 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.DUPLICATE 3
 AN 2001158766 EMBASE
 TI Improvement of the optimum temperature of lipase activity for Rhizopus
 niveus by **random mutagenesis** and its structural
 interpretation.
 AU Kohno M.; Enatsu M.; Funatsu J.; Yoshiizumi M.; Kugimiya W.
 CS M. Kohno, Central Research Institute, Tsukuba R and D Center, Fuji Oil
 Co.

Ltd., 4-3 Kinunodai, Yawara-Mura, Tsukuba-gun, Ibaraki 300-2497, Japan.
 kouno@mail.tkc.fujioil.co.jp
 SO Journal of Biotechnology, (18 May 2001) 87/3 (203-210).
 Refs: 14
 ISSN: 0168-1656 CODEN: JBITD4
 PUI S 0168-1656(01)00243-7
 CY Netherlands
 DT Journal; Article
 FS 004 Microbiology
 029 Clinical Biochemistry
 LA English
 SL English

L12 ANSWER 4 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 4
 AN 2001:140270 BIOSIS
 DN PREV200100140270
 TI Analysis of the amino terminus of maize branching enzyme II by polymerase
 chain reaction **random mutagenesis**.
 AU Hong, Seokjoo; Mikkelsen, Rene; Preiss, Jack (1)
 CS (1) Michigan State University, Room 201, Biochemistry Building, East
 Lansing, MI, 48824: preiss@pilot.msu.edu USA
 SO Archives of Biochemistry and Biophysics, (February 1, 2001) Vol. 386, No.
 1, pp. 62-68. print.
 ISSN: 0003-9861.
 DT Article
 LA English
 SL English

L12 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2001 ACS
 AN 2000:736184 CAPLUS
 DN 133:291923
 TI Methods of shuffling polynucleotides by fragmentation and multi-cyclic
 extension
 IN Stemmer, Willem P. C.
 PA Maxygen, Inc., USA
 SO U.S., 61 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 6132970	A	20001017	US 1998-100856	19980619

RE.CNT 187

RE

(2) Andersson; PNAS 1996, V93, P906 CAPLUS

(3) Anon; EP 552266 CAPLUS

(4) Anon; EP 0252666 B1 1988 CAPLUS

(5) Anon; WO 9007576 1990 CAPLUS

(6) Anon; WO 9014424 1990 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2001 ACS

AN 2000:639148 CAPLUS

DN 133:233552

TI Methods for generating polynucleotides having desired characteristics by iterative selection and recombination .

IN Stemmer, Willem P. C.

PA Maxygen, Inc., USA

SO U.S., 106 pp., Cont.-in-part of U.S. 5,811,238.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6117679	A	20000912	US 1996-621859	19960325
	US 5811238	A	19980922	US 1995-564955	19951130
	US 5837458	A	19981117	US 1996-650400	19960520
	CA 2239099	AA	19970605	CA 1996-2239099	19961202
	WO 9720078	A1	19970605	WO 1996-US19256	19961202
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9710873	A1	19970619	AU 1997-10873	19961202
	AU 713952	B2	19991216		
	EP 876509	A1	19981111	EP 1996-940934	19961202
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	EP 911396	A2	19990428	EP 1998-122014	19961202
	EP 911396	A3	19990506		
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	JP 2000500981	T2	20000202	JP 1997-520744	19961202
	JP 2000308490	A2	20001107	JP 1999-267847	19961202
	EP 1103606	A2	20010530	EP 2001-103198	19961202
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	WO 9735966	A1	19971002	WO 1997-US4715	19970320
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, US, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9725426	A1	19971017	AU 1997-25426	19970320
	EP 906418	A1	19990407	EP 1997-916943	19970320

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

JP 2000507444	T2	20000620	JP 1997-534527	19970320
US 6165793	A	20001226	US 1998-75511	19980508
US 6180406	B1	20010130	US 1998-99015	19980617
AU 9923816	A1	19990812	AU 1999-23816	19990416
PRAI US 1995-564955	A2	19951130		
US 1994-198431	A2	19940217		
AU 1995-29714	A3	19950217		
US 1995-425684	A2	19950418		
US 1996-537874	A2	19960304		
US 1996-621430	B2	19960325		
US 1996-621859	A	19960325		
US 1996-650400	A2	19960520		
EP 1996-940934	A3	19961202		
JP 1997-520744	A3	19961202		
WO 1996-US19256	W	19961202		
WO 1997-US4715	W	19970320		

RE.CNT 201

RE

- (1) Andersson; PNAS 1996, V93, P906 CAPLUS
- (2) Anon; EP 552266 CAPLUS
- (3) Anon; EP 252666 B1 1988 CAPLUS
- (4) Anon; WO 9007576 1990 CAPLUS
- (5) Anon; WO 9014430 1990 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS

AN 2000:352820 BIOSIS

DN PREV200000352820

TI The antiactivator TraM interferes with the autoinducer-dependent binding of TraR to DNA by interacting with the C-terminal region of the quorum-sensing activator.

AU Luo, Zhao-Qing; Qin, Yiping; Farrand, Stephen K. (1)

CS (1) Dept. of Crop Sciences, University of Illinois at Urbana-Champaign, 1201 West Gregory Dr., 240 Edward R. Madigan Laboratory, Urbana, IL,

61801

USA

SO Journal of Biological Chemistry, (March 17, 2000) Vol. 275, No. 11, pp. 7713-7722. print.

ISSN: 0021-9258.

DT Article

LA English

SL English

L12 ANSWER 8 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 5

AN 2000:346140 BIOSIS

DN PREV200000346140

TI Phosphorylation of nucleosides by the mutated acid phosphatase from *Morganella morganii*.

AU Mihara, Yasuhiro (1); Utagawa, Takashi; Yamada, Hideaki; Asano, Yasuhisa

CS (1) Applied Microbiology Laboratory, Fermentation and Biotechnology Laboratories, Ajinomoto Co., Inc., 1-1, Suzuki-cho, Kawasaki-ku, Kawasaki-shi, 210-8681 Japan

SO Applied and Environmental Microbiology, (July, 2000) Vol. 66, No. 7, pp. 2811-2816. print.

ISSN: 0099-2240.

DT Article

LA English

SL English

L12 ANSWER 9 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 6
 AN 2000:254413 BIOSIS
 DN PREV200000254413
 TI Functional assay for BRCA1: **Mutagenesis** of the COOH-terminal region reveals critical residues for transcription activation.
 AU Hayes, Finbarr; Cayan, Charmagne; Barilla, Daniela; Monteiro, Alvaro N.A. (1)
 CS (1) Laboratory of Molecular Oncology, Strang Cancer Prevention Center, The Rockefeller University, 1230 York Avenue, New York, NY, 10021 USA
 SO Cancer Research, (May 1, 2000) Vol. 60, No. 9, pp. 2411-2418. print.. ISSN: 0008-5472.
 DT Article
 LA English
 SL English

L12 ANSWER 10 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 7
 AN 2000:153384 BIOSIS
 DN PREV200000153384
 TI Quantitative analysis of the effect of the mutation frequency on the affinity maturation of single chain Fv antibodies.
 AU Daugherty, Patrick S.; Chen, Gang; Iverson, Brent L. (1); Georgiou, George (1)
 CS (1) Institute for Cell and Molecular Biology, University of Texas, Austin, TX, 78712 USA
 SO Proceedings of the National Academy of Sciences of the United States of America., (Feb. 29, 2000) Vol. 97, No. 5, pp. 2029-2034. ISSN: 0027-8424.
 DT Article
 LA English
 SL English

L12 ANSWER 11 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS
 AN 2000:451438 BIOSIS
 DN PREV200000451438
 TI High-density **mutagenesis** by combined DNA shuffling and phage display to assign essential amino acid residues in protein-protein interactions: Application to study structure-function of plasminogen activation inhibitor 1 (PAI-1).
 AU Stoop, A. Allart; Jespers, Laurent; Lasters, Ignace; Eldering, Eric; Pannekoek, Hans (1)
 CS (1) Department of Biochemistry, Academic Medical Center, University of Amsterdam, Amsterdam Netherlands
 SO Journal of Molecular Biology, (1 September, 2000) Vol. 301, No. 5, pp. 1135-1147. print. ISSN: 0022-2836.
 DT Article
 LA English
 SL English

L12 ANSWER 12 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 8
 AN 2000:346911 BIOSIS
 DN PREV200000346911
 TI High-level expression of a polypeptides encoded by a large segment of the envelope gene of HIV-1 in E. coli by directed evolution.
 AU Zhang, Yongshu (1); Zhao, Zhihu; Li, Fuguang; Cao, Cheng; Liu, Chuanxuan; Ma, Qingjun
 CS (1) Molecular Genetics Key Laboratory, Institute of Biotechnology, Beijing

China
SO Biotechnology Letters, (June, 2000) Vol. 22, No. 11, pp. 947-950. print.
ISSN: 0141-5492.
DT Article
LA English
SL English

L12 ANSWER 13 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 9
AN 2000:370396 BIOSIS
DN PREV200000370396
TI Modeling DNA mutation and recombination for directed evolution
experiments.
AU Moore, Gregory L.; Maranas, Costas D. (1)
CS (1) Department of Chemical Engineering, Pennsylvania State University,
University Park, PA, 16802 USA
SO Journal of Theoretical Biology, (7 August, 2000) Vol. 205, No. 3, pp.
483-503. print.
ISSN: 0022-5193.
DT Article
LA English
SL English

L12 ANSWER 14 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 10
AN 2001:163443 BIOSIS
DN PREV200100163443
TI **Error-prone PCR** of Vitreoscilla hemoglobin
(VHb) to support the growth of microaerobic Escherichia coli.
AU Andersson, Charlotte I. J.; Holmberg, Niklas; Farres, Judith; Bailey,
James E.; Bulow, Leif; Kallio, Pauli T. (1)
CS (1) Institute of Biotechnology, ETH-Zurich, CH-8093, Zurich:
paulikal@biotech.biol.ethz.ch Switzerland
SO Biotechnology and Bioengineering, (November 20, 2000) Vol. 70, No. 4, pp.
446-455. print.
ISSN: 0006-3592.
DT Article
LA English
SL English

L12 ANSWER 15 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 11
AN 2000:524957 BIOSIS
DN PREV200000524957
TI Directed evolution to improve the thermostability of prolyl
endopeptidase.
AU Uchiyama, Hidefumi (1); Inaoka, Tetsuya; Ohkuma-Soyejima, Toyomi; Togame,
Hiroko; Shibanaoka, Yasuhiko; Yoshimoto, Tadashi; Kokubo, Toshio
CS (1) Department of Biological Science and Technology, Science University
of
Tokyo, 2641 Yamazaki, Noda, Chiba, 278-8510 Japan
SO Journal of Biochemistry (Tokyo), (Sep., 2000) Vol. 128, No. 3, pp.
441-447. print.
ISSN: 0021-924X.
DT Article
LA English
SL English

L12 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2001 ACS
AN 2000:119638 CAPLUS
DN 132:275952
TI Enantioselective enzymes for organic synthesis created by directed
evolution
AU Reetz, Manfred T.; Jaeger, Karl-Erich

CS Max-Planck-Institut fur Kohlenforschung, Mulheim an der Ruhr, 45470,
Germany
SO Chem.--Eur. J. (2000), 6(3), 407-412
CODEN: CEUJED; ISSN: 0947-6539
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
RE.CNT 65
RE

- (1) Affholter, J; CHEMTECH 1999, V29, P34 CAPLUS
 - (7) Arnold, F; Acc Chem Res 1998, V31, P125 CAPLUS
 - (8) Benkovic, S; Science 1988, V239, P1105 CAPLUS
 - (9) Bornscheuer, U; Biotechnol Bioeng 1998, V58, P554 CAPLUS
 - (11) Bryan, P; Biotechnol Adv 1987, V5, P221 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2001 ACS
AN 2000:552862 CAPLUS
DN 133:263028
TI Isolation of directed evolution mutants of chloroperoxidase resistant to
suicide inactivation by primary olefins
AU Rai, Gyan P.; Zong, Qin; Hager, Lowell P.
CS Department of Biochemistry, Roger Adams Laboratory, University of
Illinois, Urbana, IL, 61801, USA
SO Isr. J. Chem. (2000), 40(1), 63-70
CODEN: ISJCAT; ISSN: 0021-2148
PB Laser Pages Publishing
DT Journal
LA English
RE.CNT 44
RE

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- ALL CITATIONS AVAILABLE IN THE RE FORMAT

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AN 1999:669460 CAPLUS
DN 132:32484
TI New strategies of protein engineering - directed evolution of enzyme in
vitro
AU Zhang, Hongying; Kong, Xiangduo; Zhang, Jin
CS State Key Laboratory of Enzyme Engineering, Jilin University, Changchun,
130023, Peop. Rep. China
SO Chin. Sci. Bull. (1999), 44(18), 1641-1648
CODEN: CSBUEF; ISSN: 1001-6538
PB Science in China Press
DT Journal; General Review
LA English
RE.CNT 54
RE

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 - (2) Back, K; Proc Natl Acad Sci USA 1996, V93, P6841 CAPLUS
 - (3) Ballinger, M; Biochem 1996, V35, P13579 CAPLUS
 - (5) Black, M; Proc Natl Acad Sci USA 1996, V93, P3525 CAPLUS
 - (8) Cerdan, P; Eur J Biochem 1995, V229, P113 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 19 OF 42 CAPLUS COPYRIGHT 2001 ACS

AN 1999:808055 CAPLUS
DN 132:132883
TI **Random mutagenesis** libraries: optimization and
simplification by **PCR**
AU Xu, Hao; Petersen, Evamaria I.; Petersen, Steffen B.; El-Gewely, M.
Raafat
CS University of Tromso, Tromso, 9037, Norway
SO BioTechniques (1999), 27(6), 1102, 1104, 1106, 1108
CODEN: BTNQDO; ISSN: 0736-6205
PB Eaton Publishing Co.
DT Journal
LA English
RE.CNT 20
RE

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 - (2) Copeland, W; J Biol Chem 1993, V268, P11041 CAPLUS
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 - (5) Fromant, M; Anal Biochem 1995, V224, P347 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 20 OF 42 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 12
AN 1999:145784 BIOSIS
DN PREV199900145784
TI **Random mutagenesis** by recombinational capture of
PCR products in *Bacillus subtilis* and *Acinetobacter calcoaceticus*.
AU Melnikov, Alexandre; Youngman, Philip J. (1)
CS (1) Millennium Pharmaceuticals Inc., Cambridge, MA 02139-4815 USA
SO Nucleic Acids Research, (Feb. 15, 1999) Vol. 27, No. 4, pp. 1056-1062.
ISSN: 0305-1048.
DT Article
LA English

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L13 8 L7 AND L10

=> d 113 1-8

L13 ANSWER 1 OF 8 LIFESCI COPYRIGHT 2001 CSA
AN 1998:63865 LIFESCI
TI Molecular evolution by staggered extension process (StEP) in vitro
recombination
AU Zhao, Huimin; Giver, L.; Shao, Zhixin; Affholter, J.A.; Arnold, F.H.*
CS Div. Chem. and Chem. Eng., California Inst. Technol., Pasadena, CA 91125,
USA
SO NAT. BIOTECHNOL., (19980300) vol. 16, no. 3, pp. 258-261.
ISSN: 1087-0156.
DT Journal
FS W3; N
LA English
SL English

L13 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2001 ACS
AN 2001:137366 CAPLUS
DN 134:188966
TI Method for **random mutagenesis** and amplification of
nucleic acid
IN Lietz, Eric
PA Genopsys, USA
SO PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012802	A1	20010222	WO 2000-US22078	20000811
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRAI US 1999-374274 A1 19990813

RE.CNT 13

RE

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(5) Joyce, G; NUCLEIC ACIDS RESEARCH 1989, V17(2), P711 CAPLUS
(6) Landt, O; GENE 1990, V96, P125 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 2000:736184 CAPLUS

DN 133:291923

TI Methods of shuffling **polynucleotides** by fragmentation and multi-cyclic extension

IN Stemmer, Willem P. C.

PA Maxygen, Inc., USA

SO U.S., 61 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6132970	A	20001017	US 1998-100856	19980619

RE.CNT 187

RE

- (2) Andersson; PNAS 1996, V93, P906 CAPLUS
(3) Anon; EP 552266 CAPLUS
(4) Anon; EP 0252666 B1 1988 CAPLUS
(5) Anon; WO 9007576 1990 CAPLUS
(6) Anon; WO 9014424 1990 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 2000:639148 CAPLUS

DN 133:233552

TI Methods for generating **polynucleotides** having desired characteristics by iterative selection and recombination

IN Stemmer, Willem P. C.

PA Maxygen, Inc., USA

SO U.S., 106 pp., Cont.-in-part of U.S. 5,811,238.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6117679	A	20000912	US 1996-621859	19960325
	US 5811238	A	19980922	US 1995-564955	19951130
	US 5837458	A	19981117	US 1996-650400	19960520
	CA 2239099	AA	19970605	CA 1996-2239099	19961202
	WO 9720078	A1	19970605	WO 1996-US19256	19961202
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9710873	A1	19970619	AU 1997-10873	19961202
	AU 713952	B2	19991216		
	EP 876509	A1	19981111	EP 1996-940934	19961202
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	EP 911396	A2	19990428	EP 1998-122014	19961202
	EP 911396	A3	19990506		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2000500981	T2	20000202	JP 1997-520744	19961202
	JP 2000308490	A2	20001107	JP 1999-267847	19961202
	EP 1103606	A2	20010530	EP 2001-103198	19961202
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	WO 9735966	A1	19971002	WO 1997-US4715	19970320
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, US, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9725426	A1	19971017	AU 1997-25426	19970320
	EP 906418	A1	19990407	EP 1997-916943	19970320
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2000507444	T2	20000620	JP 1997-534527	19970320
	US 6165793	A	20001226	US 1998-75511	19980508
	US 6180406	B1	20010130	US 1998-99015	19980617
	AU 9923816	A1	19990812	AU 1999-23816	19990416
PRAI	US 1995-564955	A2	19951130		
	US 1994-198431	A2	19940217		
	AU 1995-29714	A3	19950217		
	US 1995-425684	A2	19950418		
	US 1996-537874	A2	19960304		
	US 1996-621430	B2	19960325		
	US 1996-621859	A	19960325		
	US 1996-650400	A2	19960520		
	EP 1996-940934	A3	19961202		
	JP 1997-520744	A3	19961202		
	WO 1996-US19256	W	19961202		
	WO 1997-US4715	W	19970320		

RE.CNT 201

RE

- (1) Andersson; PNAS 1996, V93, P906 CAPLUS
- (2) Anon; EP 552266 CAPLUS
- (3) Anon; EP 252666 B1 1988 CAPLUS
- (4) Anon; WO 9007576 1990 CAPLUS
- (5) Anon; WO 9014430 1990 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 1998:672658 CAPLUS

DN 129:271526

TI Recombination of **polynucleotide** sequences using **random**
or defined primers

IN Arnold, Frances H.; Shao, Zhixin; Affholter, Joseph A.; Zhao, Huimin;
Giver, Lorraine J.

PA California Institute of Technology, USA

SO PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9842832	A1	19981001	WO 1998-US5956	19980325
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	US 6153410	A	20001128	US 1997-905359	19970804
	AU 9869420	A1	19981020	AU 1998-69420	19980325
	AU 724698	B2	20000928		
	EP 920496	A1	19990609	EP 1998-915171	19980325
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	BR 9804791	A	19990817	BR 1998-4791	19980325
	JP 2000511783	T2	20000912	JP 1998-545987	19980325
PRAI	US 1997-41666	P	19970325		
	US 1997-45211	P	19970430		
	US 1997-46256	P	19970512		
	US 1997-905359	A	19970804		
	US 1997-905058	B2	19970801		
	WO 1998-US5956	W	19980325		

L13 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 1998:66014 CAPLUS

DN 128:124509

TI Method of DNA shuffling with **polynucleotides** produced by
blocking or interrupting a synthesis or amplification process

IN Short, Jay M.

PA Recombinant Biocatalysis, Inc., USA; Short, Jay M.

SO PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 15

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9801581	A1	19980115	WO 1997-US12239	19970709

W: AU, CA, IL, JP, US
 RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,

SE

US 5965408	A	19991012	US 1996-677112	19960709
CA 2259628	AA	19980115	CA 1997-2259628	19970709
AU 9736626	A1	19980202	AU 1997-36626	19970709
EP 1007727	A1	20000614	EP 1997-933438	19970709

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI

JP 2000514651	T2	20001107	JP 1998-505366	19970709
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PRAI US 1996-677112 A2 19960709
 WO 1997-US12239 W 19970709

L13 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 1997:467751 CAPLUS

DN 127:76978

TI Methods for generating **polynucleotides** having desired characteristics by iterative selection and recombination

IN Stemmer, Willem P. C.; Cramer, Andreas

PA Affymax Technologies N.V., Neth. Antilles; Stemmer, Willem P. C.; Cramer, Andreas

SO PCT Int. Appl., 208 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9720078	A1	19970605	WO 1996-US19256	19961202
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	US 5811238	A	19980922	US 1995-564955	19951130
	US 6117679	A	20000912	US 1996-621859	19960325
	AU 9710873	A1	19970619	AU 1997-10873	19961202
	AU 713952	B2	19991216		
	EP 876509	A1	19981111	EP 1996-940934	19961202
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	JP 2000500981	T2	20000202	JP 1997-520744	19961202
	AU 9923816	A1	19990812	AU 1999-23816	19990416
PRAI	US 1995-564955	A	19951130		
	US 1996-621859	A2	19960325		
	US 1994-198431	A2	19940217		
	AU 1995-29714	A3	19950217		
	US 1996-537874	A2	19960304		
	WO 1996-US19256	W	19961202		

L13 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2001 ACS

AN 1995:863720 CAPLUS

DN 123:248553

TI Shuffling **mutagenesis** using pools of randomly-fragmented target DNA, **PCR** reassembly and in vitro and in vivo recombination in the creation of large libraries

IN Stemmer, Willem P. C.; Cramer, Andreas

PA Affymax Technologies N.V., Neth.
 SO PCT Int. Appl., 119 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9522625	A1	19950824	WO 1995-US2126	19950217
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UG				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5605793	A	19970225	US 1994-198431	19940217
	CA 2182393	AA	19950824	CA 1995-2182393	19950217
	AU 9529714	A1	19950904	AU 1995-29714	19950217
	AU 703264	B2	19990325		
	EP 752008	A1	19970108	EP 1995-911826	19950217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
SE	CN 1145641	A	19970319	CN 1995-191679	19950217
	JP 10500561	T2	19980120	JP 1995-521977	19950217
	EP 934999	A1	19990811	EP 1998-122040	19950217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
IE	JP 2001057893	A2	20010306	JP 2000-201673	19950217
	EP 1094108	A2	20010425	EP 2001-100962	19950217
	EP 1094108	A3	20010509		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
IE	US 5830721	A	19981103	US 1996-537874	19960304
	AU 9923816	A1	19990812	AU 1999-23816	19990416
PRAI	US 1994-198431	A2	19940217		
	AU 1995-29714	A3	19950217		
	EP 1995-911826	A3	19950217		
	JP 1995-521977	A3	19950217		
	WO 1995-US2126	W	19950217		

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FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 16:43:29 ON 19 JUN 2001

FILE LAST UPDATED: 18 JUN 2001 (20010618/UP). FILE COVERS 1958 TO DATE.

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E2	2	CARLSSON P U/AU
E3	70 -->	CARLSSON R/AU
E4	8	CARLSSON R M/AU
E5	6	CARLSSON R N/AU
E6	100	CARLSSON S/AU
E7	15	CARLSSON S A/AU
E8	61	CARLSSON S G/AU
E9	1	CARLSSON S M/AU
E10	33	CARLSSON S R/AU
E11	1	CARLSSON S S/AU
E12	19	CARLSSON SKWIRUT C/AU
E13	14	CARLSSON T/AU
E14	80	CARLSSON U/AU
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E16	2	CARLSSON V A/AU
E17	2	CARLSTEAD K/AU
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E19	13	CARLSTEDT B C/AU
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E21	9	CARLSTEDT C A/AU
E22	17	CARLSTEDT DUKE B/AU
E23	82	CARLSTEDT DUKE J/AU
E24	3	CARLSTEDT DUKE J M/AU
E25	3	CARLSTEDT E/AU

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70 "CARLSSON R"/AU
1750181 1997<=PY<=2000
L14 20 ("CARLSSON R"/AU) AND 1997<=PY<=2000

=> S (E3) AND 1998<=PY<=2000

70 "CARLSSON R"/AU
1325029 1998<=PY<=2000
L15 12 ("CARLSSON R"/AU) AND 1998<=PY<=2000

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L15 ANSWER 1 OF 12 MEDLINE

ACCESSION NUMBER: 2001030765 MEDLINE
DOCUMENT NUMBER: 20461642 PubMed ID: 11003812
TITLE: Endoscopy-negative reflux disease.
AUTHOR: Carlsson R; Holloway R H
CORPORATE SOURCE: Clinical Science, AstraZeneca R&D, Molndal, S-431 83, Sweden.
SOURCE: BAILLIERE'S BEST PRACTICE & RESEARCH CLINICAL GASTROENTEROLOGY, (2000 Oct) 14 (5) 827-37. Ref: 50
Journal code: DHW. ISSN: 1521-6918.
PUB. COUNTRY: ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200011
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001121

L15 ANSWER 2 OF 12 MEDLINE
ACCESSION NUMBER: 2001021134 MEDLINE
DOCUMENT NUMBER: 20467345 PubMed ID: 11012774
TITLE: Signals sustaining human immunoglobulin V gene
hypermuation in isolated germinal centre B cells.
AUTHOR: Dahlenborg K; Pound J D; Gordon J; Borrebaeck C A;
Carlsson R
CORPORATE SOURCE: Department of Immunotechnology, Lund University, Lund,
Sweden.
SOURCE: IMMUNOLOGY, (2000 Oct) 101 (2) 210-7.
Journal code: GH7. ISSN: 0019-2805.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200011
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001107

L15 ANSWER 3 OF 12 MEDLINE
ACCESSION NUMBER: 2000426103 MEDLINE
DOCUMENT NUMBER: 20392304 PubMed ID: 10932154
TITLE: Recombining germline-derived CDR sequences for creating
diverse single-framework antibody libraries.
AUTHOR: Soderlind E; Strandberg L; Jirholt P; Kobayashi N;
Alexeiva
V; Aberg A M; Nilsson A; Jansson B; Ohlin M; Wingren C;
Danielsson L; **Carlsson R**; Borrebaeck C A
CORPORATE SOURCE: BioInvent Therapeutic AB, Lund, Sweden.. es@bioinvent.com
SOURCE: NATURE BIOTECHNOLOGY, (2000 Aug) 18 (8) 852-6.
Journal code: CQ3; 9604648. ISSN: 1087-0156.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200009
ENTRY DATE: Entered STN: 20000922
Last Updated on STN: 20000922
Entered Medline: 20000914

L15 ANSWER 4 OF 12 MEDLINE
ACCESSION NUMBER: 1999349921 MEDLINE
DOCUMENT NUMBER: 99349921 PubMed ID: 10423058
TITLE: Is the esophageal squamous epithelial barrier function
impaired in patients with gastroesophageal reflux
disease?.
AUTHOR: **Carlsson R**; Fandriks L; Jonsson C; Lundell L;
Orlando R C
CORPORATE SOURCE: Dept. of Surgery, Sahlgrenska University Hospital,
Goteborg, Sweden.

SOURCE: SCANDINAVIAN JOURNAL OF GASTROENTEROLOGY, (1999
May) 34 (5) 454-8.
Journal code: UCS; 0060105. ISSN: 0036-5521.
PUB. COUNTRY: Norway
(CLINICAL TRIAL)
(CONTROLLED CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199910
ENTRY DATE: Entered STN: 20000111
Last Updated on STN: 20000111
Entered Medline: 19991029

L15 ANSWER 5 OF 12 MEDLINE
ACCESSION NUMBER: 1999332868 MEDLINE
DOCUMENT NUMBER: 99332868 PubMed ID: 10406235
TITLE: Quality of life in patients with heartburn but without
esophagitis: effects of treatment with omeprazole.
COMMENT: Comment in: Am J Gastroenterol. 1999 Jul;94(7):1723-4
AUTHOR: Havelund T; Lind T; Wiklund I; Glise H; Hernqvist H;
Lauritsen K; Lundell L; Pedersen S A; Carlsson R;
Junghard O; Stubberod A; Anker-Hansen O
CORPORATE SOURCE: Department of Medicine, Odense University Hospital,
Denmark.
SOURCE: AMERICAN JOURNAL OF GASTROENTEROLOGY, (1999 Jul)
94 (7) 1782-9.
Journal code: 3HE; 0421030. ISSN: 0002-9270.
PUB. COUNTRY: United States
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199907
ENTRY DATE: Entered STN: 19990806
Last Updated on STN: 19990806
Entered Medline: 19990727

L15 ANSWER 6 OF 12 MEDLINE
ACCESSION NUMBER: 1999328003 MEDLINE
DOCUMENT NUMBER: 99328003 PubMed ID: 10399804
TITLE: Differences in quality of life in men and women with
ischemic heart disease. A prospective controlled study.
AUTHOR: Westin L; Carlsson R; Erhardt L; Cantor-Graae E;
McNeil T
CORPORATE SOURCE: Department of Cardiology, University Hospital, Malmo,
Sweden.
SOURCE: SCANDINAVIAN CARDIOVASCULAR JOURNAL, (1999) 33
(3) 160-5.
Journal code: CTA; 9708377. ISSN: 1401-7431.
PUB. COUNTRY: Norway
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199909
ENTRY DATE: Entered STN: 19991005
Last Updated on STN: 19991005
Entered Medline: 19990923

L15 ANSWER 7 OF 12 MEDLINE

ACCESSION NUMBER: 1999315249 MEDLINE
 DOCUMENT NUMBER: 99315249 PubMed ID: 10383525
 TITLE: On demand therapy with omeprazole for the long-term management of patients with heartburn without oesophagitis--a placebo-controlled randomized trial.
 AUTHOR: Lind T; Havelund T; Lundell L; Glise H; Lauritsen K; Pedersen S A; Anker-Hansen O; Stubberod A; Eriksson G; **Carlsson R**; Junghard O
 CORPORATE SOURCE: Department of Surgery, Karnsjukhuset, Skovde, Sweden.
 SOURCE: ALIMENTARY PHARMACOLOGY AND THERAPEUTICS, (1999 Jul) 13 (7) 907-14.
 PUB. COUNTRY: Journal code: A5D; 8707234. ISSN: 0269-2813.
 ENGLAND: United Kingdom
 (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (MULTICENTER STUDY)
 (RANDOMIZED CONTROLLED TRIAL)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199908
 ENTRY DATE: Entered STN: 19990827
 Last Updated on STN: 19990827
 Entered Medline: 19990819

L15 ANSWER 8 OF 12 MEDLINE
 ACCESSION NUMBER: 1999262277 MEDLINE
 DOCUMENT NUMBER: 99262277 PubMed ID: 10330279
 TITLE: Co-ligation of CD44 on naive human tonsillar B cells induces progression towards a germinal center phenotype.
 AUTHOR: Ingvarsson S; Dahlenborg K; **Carlsson R**; Borrebaeck C A
 CORPORATE SOURCE: Department of Immunotechnology, Lund University, Box 7031, 220 07 Lund, Sweden.
 SOURCE: INTERNATIONAL IMMUNOLOGY, (1999 May) 11 (5) 739-44.
 PUB. COUNTRY: Journal code: AY5; 8916182. ISSN: 0953-8178.
 ENGLAND: United Kingdom
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199906
 ENTRY DATE: Entered STN: 19990712
 Last Updated on STN: 19990712
 Entered Medline: 19990623

L15 ANSWER 9 OF 12 MEDLINE
 ACCESSION NUMBER: 1999246128 MEDLINE
 DOCUMENT NUMBER: 99246128 PubMed ID: 10231097
 TITLE: Complementarity-determining region (CDR) implantation: a theme of recombination.
 AUTHOR: Soderlind E; Ohlin M; **Carlsson R**
 CORPORATE SOURCE: BioInvent Therapeutic AB, Lund, Sweden.. es@bioinvent.com
 SOURCE: IMMUNOTECHNOLOGY, (1999 Mar) 4 (3-4) 279-85.
 Ref: 25
 PUB. COUNTRY: Journal code: CR0; 9511979. ISSN: 1380-2933.
 Netherlands
 Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW, TUTORIAL)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals

ENTRY MONTH: 199908
ENTRY DATE: Entered STN: 19990913
Last Updated on STN: 19990913
Entered Medline: 19990831

L15 ANSWER 10 OF 12 MEDLINE

ACCESSION NUMBER: 1999044819 MEDLINE
DOCUMENT NUMBER: 99044819 PubMed ID: 9829354
TITLE: The usefulness of a structured questionnaire in the
assessment of symptomatic gastroesophageal reflux
disease.
AUTHOR: **Carlsson R**; Dent J; Bolling-Sternevald E;
Johnsson F; Junghard O; Lauritsen K; Riley S; Lundell L
CORPORATE SOURCE: Dept. of Surgery, Sahlgren's University Hospital,
Goteborg,
Sweden.
SOURCE: SCANDINAVIAN JOURNAL OF GASTROENTEROLOGY, (1998
Oct) 33 (10) 1023-9.
Journal code: UCS; 0060105. ISSN: 0036-5521.
PUB. COUNTRY: Norway
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199901
ENTRY DATE: Entered STN: 19990202
Last Updated on STN: 19990202
Entered Medline: 19990115

L15 ANSWER 11 OF 12 MEDLINE

ACCESSION NUMBER: 1999018955 MEDLINE
DOCUMENT NUMBER: 99018955 PubMed ID: 9802147
TITLE: Serum cholesterol, lifestyle, working capacity and quality
of life in patients with coronary artery disease.
Experiences from a hospital-based secondary prevention
programme.
AUTHOR: **Carlsson R**
CORPORATE SOURCE: Department of Cardiology, Malmo University Hospital, Lund
University, Sweden.
SOURCE: SCANDINAVIAN CARDIOVASCULAR JOURNAL. SUPPLEMENT,
(1998) 50 1-20.
Journal code: CTB; 9711058. ISSN: 1401-7458.
PUB. COUNTRY: Norway
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199901
ENTRY DATE: Entered STN: 19990202
Last Updated on STN: 19990202
Entered Medline: 19990119

L15 ANSWER 12 OF 12 MEDLINE

ACCESSION NUMBER: 1998241142 MEDLINE
DOCUMENT NUMBER: 98241142 PubMed ID: 9581986
TITLE: Gastro-oesophageal reflux disease in primary care: an
international study of different treatment strategies with
omeprazole. International GORD Study Group.
AUTHOR: **Carlsson R**; Dent J; Watts R; Riley S; Sheikh R;
Hatlebakk J; Haug K; de Groot G; van Oudvorst A; Dalvag A;
Junghard O; Wiklund I

CORPORATE SOURCE: Department of Surgery, Sahlgren's University Hospital,
Gothenburg, Sweden.
SOURCE: EUROPEAN JOURNAL OF GASTROENTEROLOGY AND HEPATOLOGY,
(1998 Feb) 10 (2) 119-24.
Journal code: B9X; 9000874. ISSN: 0954-691X.
PUB. COUNTRY: ENGLAND: United Kingdom
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199806
ENTRY DATE: Entered STN: 19980708
Last Updated on STN: 19980708
Entered Medline: 19980624

=> E BORREBAECK C/AU 25

E1	1	BORREAU J P/AU
E2	1	BORREBACH D E/AU
E3	13 -->	BORREBAECK C/AU
E4	111	BORREBAECK C A/AU
E5	1	BORREBAECK C K/AU
E6	43	BORREBAEK B/AU
E7	1	BORRECA C/AU
E8	1	BORRECA F A/AU
E9	4	BORREDA D/AU
E10	25	BORREDON C/AU
E11	16	BORREDON J/AU
E12	1	BORREDON J J/AU
E13	4	BORREDON P/AU
E14	2	BORREE J/AU
E15	1	BORREE J A/AU
E16	1	BORREGA F/AU
E17	2	BORREGA GARCIA P/AU
E18	1	BORREGA N G/AU
E19	1	BORREGA P/AU
E20	138	BORREGAARD N/AU
E21	1	BORREGALES L/AU
E22	1	BORREGALES TORRES E/AU
E23	1	BORREGANA J/AU
E24	1	BORREGARD L/AU
E25	1	BORREGARD N/AU

=> S (E3)

L16 13 ("BORREBAECK C"/AU)

=> DIS L16 1- IBIB

YOU HAVE REQUESTED DATA FROM 13 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 1.95 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L16 ANSWER 1 OF 13 MEDLINE

ACCESSION NUMBER: 1999308789 MEDLINE

DOCUMENT NUMBER: 99308789 PubMed ID: 10381082

TITLE: Synthesis of a eukaryotic virus protein in a prokaryotic
viral-cell system: production of the adenovirus type 2
fiber shaft fragment by a tightly regulated T7POL-M13
expression system.

AUTHOR: Duenas M; Rodriguez E; Nilsson N; Everitt E;
Borrebaeck C

CORPORATE SOURCE: Immunotechnology and Diagnosis Division, Center for Genetic Engineering and Biotechnology (CIGB), Havana, Cuba.
SOURCE: JOURNAL OF VIROLOGICAL METHODS, (1999 May) 79 (2) 121-31.
Journal code: HQR; 8005839. ISSN: 0166-0934.
PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199908
ENTRY DATE: Entered STN: 19990820
Last Updated on STN: 20000824
Entered Medline: 19990810

L16 ANSWER 2 OF 13 MEDLINE
ACCESSION NUMBER: 96324736 MEDLINE
DOCUMENT NUMBER: 96324736 PubMed ID: 8757960
TITLE: Elevated expression levels of an Ig transgene in mice links the IgH 3' enhancer to the regulation of IgH expression.
AUTHOR: Arulampalam V; Furebring C; Samuelsson A; Lendahl U; **Borrebaeck C**; Lundkvist I; Pettersson S
CORPORATE SOURCE: Department of Biosciences, Karolinska Institute, NOVUM, 141 57 Huddinge, Sweden.
SOURCE: INTERNATIONAL IMMUNOLOGY, (1996 Jul) 8 (7) 1149-57.
Journal code: AY5; 8916182. ISSN: 0953-8178.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199701
ENTRY DATE: Entered STN: 19970219
Last Updated on STN: 19970219
Entered Medline: 19970121

L16 ANSWER 3 OF 13 MEDLINE
ACCESSION NUMBER: 81248997 MEDLINE
DOCUMENT NUMBER: 81248997 PubMed ID: 7256185
TITLE: Simple routine assay for serum urea using immobilized urease.
AUTHOR: **Borrebaeck C**; Borjeson J
SOURCE: SCANDINAVIAN JOURNAL OF CLINICAL AND LABORATORY INVESTIGATION, (1980 Apr) 40 (2) 169-72.
Journal code: UCP; 0404375. ISSN: 0036-5513.
PUB. COUNTRY: Norway
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198109
ENTRY DATE: Entered STN: 19900316
Last Updated on STN: 19900316
Entered Medline: 19810925

L16 ANSWER 4 OF 13 MEDLINE
ACCESSION NUMBER: 81193139 MEDLINE
DOCUMENT NUMBER: 81193139 PubMed ID: 7014722
TITLE: Liposome immune assay (LIA). Use of membrane antigens inserted into labeled lipid vesicles as targets in immune assays.

AUTHOR: Axelsson B; Eriksson H; **Borrebaeck C**; Mattiasson
B; Sjogren H O
CONTRACT NUMBER: CA 14924 (NCI)
SOURCE: JOURNAL OF IMMUNOLOGICAL METHODS, (1981) 41 (3) 351-63.
Journal code: IFE; 1305440. ISSN: 0022-1759.
PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198107
ENTRY DATE: Entered STN: 19900316
Last Updated on STN: 19970203
Entered Medline: 19810723

L16 ANSWER 5 OF 13 MEDLINE
ACCESSION NUMBER: 81117356 MEDLINE
DOCUMENT NUMBER: 81117356 PubMed ID: 7462242
TITLE: Carbohydrate binding properties of th Dolichos biflorus
lectin and its subunits.
AUTHOR: Etzler M E; Gupta S; **Borrebaeck C**
CONTRACT NUMBER: GM 21882 (NIGMS)
SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (1981 Mar 10) 256 (5)
2367-70.
Journal code: HIV; 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198104
ENTRY DATE: Entered STN: 19900316
Last Updated on STN: 19970203
Entered Medline: 19810424

L16 ANSWER 6 OF 13 MEDLINE
ACCESSION NUMBER: 81062474 MEDLINE
DOCUMENT NUMBER: 81062474 PubMed ID: 7192093
TITLE: Carbohydrate binding activity of a lectin-like
glycoprotein
from stems and leaves of Dolichos biflorus.
AUTHOR: Etzler M E; **Borrebaeck C**
CONTRACT NUMBER: GM 21882 (NIGMS)
SOURCE: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1980
Sep 16) 96 (1) 92-7.
Journal code: 9Y8; 0372516. ISSN: 0006-291X.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198101
ENTRY DATE: Entered STN: 19900316
Last Updated on STN: 19970203
Entered Medline: 19810116

L16 ANSWER 7 OF 13 MEDLINE
ACCESSION NUMBER: 81060329 MEDLINE
DOCUMENT NUMBER: 81060329 PubMed ID: 7435975
TITLE: Lectin-carbohydrate interactions studied by a competitive
enzyme inhibition assay.
AUTHOR: **Borrebaeck C**; Mattiasson B
SOURCE: ANALYTICAL BIOCHEMISTRY, (1980 Sep 15) 107 (2) 446-50.
Journal code: 4NK; 0370535. ISSN: 0003-2697.

PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198101
ENTRY DATE: Entered STN: 19900316
Last Updated on STN: 19900316
Entered Medline: 19810126

L16 ANSWER 8 OF 13 MEDLINE
ACCESSION NUMBER: 81004436 MEDLINE
DOCUMENT NUMBER: 81004436 PubMed ID: 7409169
TITLE: A study of binding properties of the isolectins from the
Dolichos biflorus plant using affinity electrophoresis.
AUTHOR: **Borrebaeck C**; Etzler M E
CONTRACT NUMBER: GM 21882 (NIGMS)
SOURCE: FEBS LETTERS, (1980 Aug 11) 117 (1) 237-40.
Journal code: EUH; 0155157. ISSN: 0014-5793.
PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198011
ENTRY DATE: Entered STN: 19900316
Last Updated on STN: 19970203
Entered Medline: 19801125

L16 ANSWER 9 OF 13 MEDLINE
ACCESSION NUMBER: 80245994 MEDLINE
DOCUMENT NUMBER: 80245994 PubMed ID: 7398639
TITLE: A study of structurally related binding properties of
concanavalin A using differential scanning calorimetry.
AUTHOR: **Borrebaeck C**; Mattiasson B
SOURCE: EUROPEAN JOURNAL OF BIOCHEMISTRY, (1980) 107 (1) 67-71.
Journal code: EMZ; 0107600. ISSN: 0014-2956.
PUB. COUNTRY: GERMANY, WEST: Germany, Federal Republic of
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198010
ENTRY DATE: Entered STN: 19900315
Last Updated on STN: 19970203
Entered Medline: 19801024

L16 ANSWER 10 OF 13 MEDLINE
ACCESSION NUMBER: 79023521 MEDLINE
DOCUMENT NUMBER: 79023521 PubMed ID: 359194
TITLE: Non-equilibrium enzyme immunoassay of gentamicin.
AUTHOR: Mattiasson B; Svensson K; **Borrebaeck C**; Jonsson
S; Kronvall G
SOURCE: CLINICAL CHEMISTRY, (1978 Oct) 24 (10) 1770-3.
Journal code: DBZ; 9421549. ISSN: 0009-9147.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 197812
ENTRY DATE: Entered STN: 19900314
Last Updated on STN: 19900314
Entered Medline: 19781227

L16 ANSWER 11 OF 13 MEDLINE

ACCESSION NUMBER: 78213481 MEDLINE
 DOCUMENT NUMBER: 78213481 PubMed ID: 352577
 TITLE: Thermometric enzyme linked immunosorbent assay in continuous flow system: optimization and evaluation using human serum albumin as a model system.
 AUTHOR: **Borrebaeck C**; Borjeson J; Mattiasson B
 SOURCE: CLINICA CHIMICA ACTA, (1978 Jun 15) 86 (3) 267-78.
 Journal code: DCC; 1302422. ISSN: 0009-8981.
 PUB. COUNTRY: Netherlands
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 197809
 ENTRY DATE: Entered STN: 19900314
 Last Updated on STN: 19900314
 Entered Medline: 19780915

L16 ANSWER 12 OF 13 MEDLINE

ACCESSION NUMBER: 78084814 MEDLINE
 DOCUMENT NUMBER: 78084814 PubMed ID: 620781
 TITLE: An analytical flow system based on reversible immobilization of enzymes and whole cells utilizing specific lectin-glucoprotein interactions.
 AUTHOR: Mattiasson B; **Borrebaeck C**
 SOURCE: FEBS LETTERS, (1978 Jan 1) 85 (1) 119-23.
 Journal code: EUH; 0155157. ISSN: 0014-5793.
 PUB. COUNTRY: Netherlands
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 197803
 ENTRY DATE: Entered STN: 19900314
 Last Updated on STN: 19970203
 Entered Medline: 19780310

L16 ANSWER 13 OF 13 MEDLINE

ACCESSION NUMBER: 77242402 MEDLINE
 DOCUMENT NUMBER: 77242402 PubMed ID: 329888
 TITLE: Thermometric enzyme linked immunosorbent assay: TELISA.
 AUTHOR: Mattiasson B; **Borrebaeck C**; Sanfridson B; Mosbach K
 SOURCE: BIOCHIMICA ET BIOPHYSICA ACTA, (1977 Aug 11) 483 (2) 221-7.
 Journal code: A0W; 0217513. ISSN: 0006-3002.
 PUB. COUNTRY: Netherlands
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 197710
 ENTRY DATE: Entered STN: 19900314
 Last Updated on STN: 19900314
 Entered Medline: 19771014

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---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.75	95.20

STN INTERNATIONAL LOGOFF AT 16:49:17 ON 19 JUN 2001